CWO 713X (SURFACE ENGINEERING)

DESIGNATOR DESCRIPTION

Surface Engineering Technicians serve as officer technical managers in the field of surface ship marine engineering, including maintenance and repair of main propulsion (gas turbine, diesel, steam, and combined diesel-gas turbine), electrical, and auxiliary machinery and systems, ship's hull, structure and associated fittings, and practical and theoretical damage control procedures; plans, administers, and supervises the installation, operation, maintenance, and repair of equipment; makes ship alterations or design modifications; formulates, directs, and evaluates training programs; writes reports and provides technical assistance and advice; plans, organizes, and controls industrial shop production; develops and administers policy and procedures for regulating and integrating work or repair facilities; applies many elements of total quality management and quality assurance; uses computerized management information systems.

They may serve as, but not limited only to serving as; officers in charge, chief engineers, main propulsion assistant, damage control assistant, auxiliary officers, electrical officers, repair officers, material officers, or in various operational and staff billets

THIRD AT-SEA DIVISION OFFICER TOUR SEK OUT PRINCIPAL ASSISTANT TYPE BILLETS ON LSD/LHD/LHA/CVN BS or MS DEGREE THIRD AT-SEA DIVISION OFFICER TOUR SEK OUT PRINCIPAL BILLETS ON LSD/LHD/LHA/CVN PC CHENG AA OF BS DEGREE TAA OF BS DEGREE TOUR ACD: EOOW- LC1/2/3/6/7/8; COOP-LB2, ACD: EOOW- LC1/2/3/6/7/8; COOP-LB2, LCS MPA LC1/2/3/6/7/8; COOP-LB2, CG/DDG MPA LC1/2/3/6/7/8; COOP-LB2, CG/D		air officers,	material officers, or in various operational and staff billets. SEA CAREER	PATTERN SHORE
CWO5 FOURTH AT-SEA TOUR: PRINCIPAL ASSISTANT TYPE BILLETS ON LSD/LHD/LHA/CVN SWESC GLAKES ATGWPAC SHIP REPAIR FACILITY SASEBO SWOS SITE SEGO/MORVA DC FF AOIC CNAF 3M TEAM OIC USCG LICENSE (3RD, 2ND, 1ST, CHIEF BILLETS ON LSD/LHD/LHA/CVN) THIRD AT-SEA DIVISION OFFICER TOUR SEEK OUT PRINCIPAL ASSISTANT TYPE BILLETS ON LSD/LHD/LHA/CVN PC CHENG AA OF BS DEGREE TOUR PC CHENG PC CHENG SECOND AT-SEA DIVISION OFFICER TOUR SEEK OUT PRINCIPAL ASSISTANT TYPE BILLETS ON LSD/LHD/LHA/CVN PC CHENG PC CHENG PC CHENG PC CHENG DEPARTMENT HEAD/OIC/DIV'O USCG LICENSE (3RD, 2ND, 1ST, CHIEF SWOS SITE SDGO/MORVA/SBT/ACU/MSUS / NSWRM/SWESC GL/SWOS NFT/SWOS SENC SDGO/MACRO/MARM/CONS S			<u>SEA</u> CARLER	TATIENN <u>SHOKE</u>
CWO4 11 BS or MS DEGREE THIRD AT-SEA DIVISION OFFICER TOUR SEEK OUT PRINCIPAL ASSISTANT TYPE BILLETS ON LSD/LHD/LHA/CVN PC CHENG AA or BS DEGREE 7 CWO3 AQD: EOOW-LC1/2/3/kr/7/s; OOD-LB2, AQD: EOOW-LC1/2/3/kr/7/s; OOD-LB2, LCS MPA LC1/2/3/kr/7/s; OOD-LB2, CG MPA LC1/2/3/kr/7/s; OOD-LB2, CG MPA LC1/2/3/kr/7/s; OOD-LB2, CG MPA LC1/2/3/kr/7/s; OOD-LB2, CG MPA LC1/2/3/kr/7/s; OOD-LB2, CG/DOS MPA LC1/2/3/kr/7/s; OOD-LB2, CG/DOS MPA LC1/2/3/kr/7/s; OOD-LB2, CG/DOS MPA LC1/2/3/kr/7/s; OOD-LB2, CG/DOS MPA LCCS MPA LCCS MPA LCLS MPA LCLS MPA LCLS MPA LCCS MPA LCLS MP	MA DEGREE	15	ASSISTANT TYPE BILLETS ON	
THIRD AT-SEA DIVISION OFFICER TOUR SEEK OUT PRINCIPAL ASSISTANT TYPE BILLETS ON LSD/LHD/LHA/CVN AA OF BS DEGREE A OF BRESINSURV/ATG/EAA/EAP/SAFETY CENTRENIA HEAD/OIC/DIV'O CONTROL SERVISON OFFICER TOUR BEPARTMENT HEAD/OIC/DIV'O CENTERINAVAL ACADEMY/CNBS S DEGREEN/SENT OFFICER TOUR BEPARTMENT HEAD/OIC/DIV'O CONTROL SENT OFFICER TOUR A OF BS DEGREE A DEPARTMENT HEAD/OIC/DIV'O TO TOUR'S AVAILABLE SHORE TOUR' A OF BS DEGREE A DEPARTMENT HEAD/OIC/DIV'O TOUR'S AVAILABLE SHORE TOUR' B DEPARTMENT HEAD/OIC/DIV'O TOUR'S AVAILABLE SHORE TOUR' A OF BS DEGREE A DEPARTMENT HEAD/OIC/DIV'O TOUR'S AVAILABLE SHORE TOUR' A OF BS DEGREE A DEPARTMENT HEAD/OIC/DIV'O TOUR'S AVAILABLE SHORE TOUR' A OF BS DEGREE A DEPARTMENT HEAD/OIC/DIV'O TOUR'S AVAILABLE SHORE TOUR' A OF BS DEGREE A DEPARTMENT HEAD/OIC/DIV'O TOUR'S AVAILABLE SHORE TOUR' A OF BS DEGREE A DEPARTMENT HEAD/OIC/DIV'O TOUR'S AVAILABLE SHORE TOUR' A OF BS DEGREE A DEPARTMENT HEAD/OIC/DIV'O TOUR'S AVAILABLE SHORE TOUR' A OF BS DEGREE A DEPARTMENT HEAD/OIC/DIV'O TOUR'S AVAILABLE SHORE TOUR' A OF BS DEGREE A DEPARTMENT HEAD/OIC/DIV'O TOUR'S A	CWO5		EGD/EHD/EHA/OVN	ATGWPAC
THIRD AT-SEA DIVISION OFFICER TOUR SEEK OUT PRINCIPAL ASSISTANT TYPE BILLETS ON LSD/LHD/LHA/CVN PC CHENG PC CHENG AA or BS DEGREE AA OR BS DEGREE TAA OR BS DEGREE ACT SECOND AT-SEA DIVISION OFFICER TOUR SEEK OUT PRINCIPAL ASSISTANT TYPE BILLETS ON LSD/LHD/LHA/CVN PC CHENG PC CHENG PC CHENG PC CHENG DDG MPA CG MPA LC1/2/3/6/7/8, OOD - LB2, TAO - LF87 AQD Shore: CB3/CB4; CD3/CD4 TOUR CWO2 AQD: EOW- LC1/2/3/6/7/8; OOD - LB2, TAO - LF87 AQD: EOW- LC1/2/3/6/7/8; OOD - LB2, TAO - LF87 AQD: EOW- LC1/2/3/6/7/8; OOD - LB2, TAO - LF87 AQD: EOW- LC1/2/3/6/7/8; OOD - LB2, CG/DDG MPA LC2/2/3/6/7/8; OOD - LB2, CG/DDG MPA LC2/2/3/6/7/8; OOD - LB2, CG/DDG MPA LC1/2/3/6/7/8; OOD - LB2, CG/DDG MPA LC1/2/3/6/7/8; OOD - LB2, CG/DDG MPA LC2/2/3/6/7/8; OOD - LB2, CG/DDG MPA LC1/2/3/6/7/8; OOD - LB2, CG/DDG MPA LC2/2/3/6/7/8; OOD - LB2, CG/DDG MPA LC1/2/3/6/7/8; OOD - LB2, CG/DDG MPA LC2/2/3/6/7/8; OOD		_		SWOS SITE SDGO/NORVA DC FF AOIC -
THIRD AT-SEA DIVISION OFFICER TOUR SEEK OUT PRINCIPAL ASSISTANT TYPE BILLETS ON LSD/LHD/LHA/CVN PC CHENG PC CHENG AA OF BS DEGREE AA OF BS DEGREE THIRD AT-SEA DIVISION OFFICER BILLETS ON LSD/LHD/LHA/CVN PC CHENG PC CHENG SECOND AT-SEA DIVISION OFFICER TOUR PC CHENG BTC/COMNAVPERSCOM (MPT&E) SWOS SITE SDGO/NORVA DC FF AOIC USCG LICENSE (3RD, 2ND, 1ST, CHIEF CWO3 AGD: EOOW- LC1/2/3/6/7/8, OOD - LB2, TAO - LF6/7 AQD Shore: CB3/CB4; CD3/CD4 AGD: EOOW- LC1/2/3/6/7/8; OOD - LB2, TYPE CHENG (OPPORTUNITY TO THOSE WITH SUPPORTING EXPERIENCE)* CWO2 AGD: EOOW- LC1/2/3/6/7/8; OOD - LB2, TCCHENG (OPPORTUNITY TO THOSE WITH SUPPORTING EXPERIENCE)* CG/DDG MPA LCD		11		USCG LICENSE (3RD, 2ND, 1ST, CHIEF)
CWO4 SEEK OUT PRINCIPAL ASSISTANT TYPE BILLETS ON LSD/LHD/LHA/CVN PC CHENG SECOND AT-SEA DIVISION OFFICER TOUR PC CHENG PC	BS or MS DEGREE	_	THIRD AT SEA DIVISION OFFICER TOLIR	
CWO4 PC CHENG AA or BS DEGREE 7 SECOND AT-SEA DIVISION OFFICER TOUR PC CHENG DDG MPA CG MPA LC1/2/3/6/7/8, 0OD - LB2, CD3/CD4 3 FIRST AT-SEA DIVISION OFFICER TOUR PC CHENG CWO2 AQD: EOOW - LC1/2/3/6/7/8; 0OD - LB2, CG/DDG MPA LC1/2/3/6/7/8; 0OD - LB2, CCWO2 AQD: EOOW - LC1/2/3/6/7/8; 0OD - LB2, CCWO3 AQD: EOOW - LC1/2/3/6/7/8; 0				
PC CHENG PC CHENG PC CHENG PC CHENG SWRMC/SWESC GL/SWOS NPT/SWOS ENG SDGO/NORVA/SBT/ACU/NBU 7/NSW BTC/COMNAVPERSCOM (MPT&E) SWOS SITE SDGO/NORVA DC FF AOIC USCG LICENSE (3RD, 2ND, 1ST, CHIEF SECOND AT-SEA DIVISION OFFICER TOUR PC CHENG PC CHENG DEPARTMENT HEAD/OIC/DIV'O *AVAILABLE SHORE TOUR* DCA/SE INSTRUCTOR (SAN DIEGO/NORFOLK) CNSS-5 REPAIR OFF USCG LICENSE (3RD, 2ND, 1ST, CHIEF CNSS-5 REPAIR OFF USCG LICENSE (3RD, 2ND, 1ST, CHIEF USCG LICENSE (3RD, 2ND, 1ST, CHIEF TOUR *AVAILABLE SHORE TOUR* CNSS-5 REPAIR OFF USCG LICENSE (3RD, 2ND, 1ST, CHIEF USCG LICENSE (3RD, 2ND, 1ST, CHIEF TOUR *PC CHENG (OPPORTUNITY TO THOSE WITH SUPPORTING EXPERIENCE)* CWO2 AQD: EOOW - LC1/2/3/6/7/8; OOD - LB2, LCS MPA LCS MPA LCS MPA LCS MPA LCS MPA LD BOILERS OFF LCS MPA		_	BILLETS ON LSD/LHD/LHA/CVN	
BTC/COMNAVPERSCOM (MPT&E) SWOS SITE SDGO/NORVA DC FF AOIC USCG LICENSE (3RD, 2ND, 1ST, CHIEF SECOND AT-SEA DIVISION OFFICER TOUR PC CHENG PC CHENG DDG MPA LC1/2/3/6/7/8, 0OD - LB2, TAO - LF6/7 AQD Shore: CB3/CB4; CD3/CD4 PFIRST AT-SEA DIVISION OFFICER TOUR *AVAILABLE SHORE TOUR* DCA/SE INSTRUCTOR (SAN DIEGO/NORFOLK) CNSS-5 REPAIR OFF USCG LICENSE (3RD, 2ND, 1ST, CHIEF USCG LICENSE (3RD, 2ND, 1ST, CHIEF *PC CHENG (OPPORTUNITY TO THOSE WITH SUPPORTING EXPERIENCE)* CCG/DDG MPA LC1/2/3/6/7/8; 0OD - LB2, LCS MPA *CG/DDG MPA LHD BOILERS OFF LCS MPA	CWO4		PC CHENG	
SWOS SITE SDGO/NORVÀ DC FF AOIC USCG LICENSE (3RD, 2ND, 1ST, CHIEF SECOND AT-SEA DIVISION OFFICER TOUR PC CHENG DDG MPA CG MPA LCI/2/3/6/7/8, OOD - LB2, TAO - LF6/7 AQD: EOOW- LCI/2/3/6/7/8; OOD - LB2, TAO - LF6/7 AQD: EOOW- LCI/2/3/6/7/8; OOD - LB2, TAO - LF6/7 AQD: EOOW- LCI/2/3/6/7/8; OOD - LB2, LCS MPA LSD/LPD AUX/ELECTRO/DCA FIRST AT-SEA DIVISION OFFICER TOUR *PC CHENG (OPPORTUNITY TO THOSE WITH SUPPORTING EXPERIENCE)* CG/DDG MPA LHD BOILERS OFF LCS MPA SWOS SITE SDGO/NORVÀ DC FF AOIC USCG LICENSE (3RD, 2ND, 1ST, CHIEF DEPARTMENT HEAD/OIC/DIV'O *AVAILABLE SHORE TOUR* CNSS-5 REPAIR OFF USCG LICENSE (3RD, 2ND, 1ST, CHIEF 1ST AND 2ND TOURS ARE AT SEA *PC CHENG (OPPORTUNITY TO THOSE WITH SUPPORTING EXPERIENCE)* LCS MPA LHD BOILERS OFF LCS MPA		_	_	ENG SDGO/NORVA/SBT/ACU/NBU 7/NSW
AA or BS DEGREE 7 SECOND AT-SEA DIVISION OFFICER TOUR PC CHENG AQD: EOOW - LC1/2/3/6/7/8, OOD - LB2, TAO - LF6/7 AQD Shore: CB3/CB4; CD3/CD4 3 FIRST AT-SEA DIVISION OFFICER TOUR PC CHENG DCA/SE INSTRUCTOR (SAN DIEGO/NORFOLK) CNSS-5 REPAIR OFF USCG LICENSE (3RD, 2ND, 1ST, CHIEF *PC CHENG (OPPORTUNITY TO THOSE WITH SUPPORTING EXPERIENCE)* CG/DDG MPA LC1/2/3/6/7/8; OOD - LB2, CG/DDG MPA LHD BOILERS OFF LCS MPA				
CWO3 AQD: EOOW - LCI/2/3/6/7/8; OOD - LB2, CD3/CD4 AQD: EOOW - LCI/2/3/6/7/8; OOD - LB2, CD3/CD4 AQD: EOOW - LCI/2/3/6/7/8; OOD - LB2, CD3/CD4 AQD: EOOW - LCI/2/3/6/7/8; OOD - LB2, CCG/DDG MPA LCI/2/3/6/7/8; OOD - LB2, LCS MPA LSD/LPD AUX/ELECTRO/DCA FIRST AT-SEA DIVISION OFFICER TOUR *AVAILABLE SHORE TOUR* DCA/SE INSTRUCTOR (SAN DIEGO/NORFOLK) CNSS-5 REPAIR OFF USCG LICENSE (3RD, 2ND, 1ST, CHIEF *PC CHENG (OPPORTUNITY TO THOSE WITH SUPPORTING EXPERIENCE)* CG/DDG MPA LCI/2/3/6/7/8; OOD - LB2, LCS MPA DCA/SE INSTRUCTOR (SAN DIEGO/NORFOLK) CNSS-5 REPAIR OFF USCG LICENSE (3RD, 2ND, 1ST, CHIEF *PC CHENG (OPPORTUNITY TO THOSE WITH SUPPORTING EXPERIENCE)* CG/DDG MPA LHD BOILERS OFF LCS MPA		7		USCG LICENSE (3RD, 2ND, 1ST, CHIEF)
CWO3 AQD: EOOW - LCI/2/3/6/7/8; OOD - LB2, TAO - LF6/7 AQD Shore: CB3/CB4; CD3/CD4 AQD: EOOW - LCI/2/3/6/7/8; OOD - LB2, TAO - LF6/7 AQD Shore: CB3/CB4; CD3/CD4 AQD: EOOW - LCI/2/3/6/7/8; OOD - LB2, TAO - LF6/7 AQD Shore: CB3/CB4; CD3/CD4 AQD: EOOW - LCI/2/3/6/7/8; OOD - LB2, LCS MPA LSD/LPD AUX/ELECTRO/DCA *AVAILABLE SHORE TOUR* DCA/SE INSTRUCTOR (SAN DIEGO/NORFOLK) CNSS-5 REPAIR OFF USCG LICENSE (3RD, 2ND, 1ST, CHIEF *PC CHENG (OPPORTUNITY TO THOSE WITH SUPPORTING EXPERIENCE)* CG/DDG MPA LHD BOILERS OFF LCS MPA *AVAILABLE SHORE TOUR* DCA/SE INSTRUCTOR (SAN DIEGO/NORFOLK) CNSS-5 REPAIR OFF USCG LICENSE (3RD, 2ND, 1ST, CHIEF *PC CHENG (OPPORTUNITY TO THOSE WITH SUPPORTING EXPERIENCE)* LCS MPA	AA or BS DEGREE	- 1		DEPARTMENT HEAD/OIC/DIV'O
DDG MPA CG MPA LC1/2/3/6/7/8; OOD - LB2, TAO - LF6/7 AQD: EOOW - LC1/2/3/6/7/8; OOD - LB2, TAO - LF6/7 AQD: EOOW - LC1/2/3/6/7/8; OOD - LB2, TAO - LF6/7 AQD: EOOW - LC1/2/3/6/7/8; OOD - LB2, DDG MPA CG MPA LCS MPA DCA/SE INSTRUCTOR (SAN DIEGO/NORFOLK) CNSS-5 REPAIR OFF USCG LICENSE (3RD, 2ND, 1ST, CHIEF USCG LICENSE (3RD, 2ND, 1ST, CHIEF TST AND 2 ND TOURS ARE AT SEA *PC CHENG (OPPORTUNITY TO THOSE WITH SUPPORTING EXPERIENCE)* CG/DDG MPA LHD BOILERS OFF LCS MPA		_		*AVAILABLE SHORE TOUR*
AQD: EOOW - LC1/2/3/6/7/8, OOD - LB2, TAO - LF6/7 AQD Shore: CB3/CB4; CD3/CD4 3 FIRST AT-SEA DIVISION OFFICER TOUR *PC CHENG (OPPORTUNITY TO THOSE WITH SUPPORTING EXPERIENCE)* AQD: EOOW - LC1/2/3/6/7/8; OOD - LB2, CG/DDG MPA CHOCK DESCRIPTION DIEGO/NORFOLK) CNSS-5 REPAIR OFF USCG LICENSE (3RD, 2ND, 1ST, CHIEF 1ST AND 2ND TOURS ARE AT SEA *PC CHENG (OPPORTUNITY TO THOSE WITH SUPPORTING EXPERIENCE)* CG/DDG MPA LHD BOILERS OFF LCS MPA	CWO3		PC CHENG	DCA/SE INSTRUCTOR (SAN
LC1/2/3/6/7/8, OOD - LB2, TAO - LF6/7 AQD Shore: CB3/CB4; CD3/CD4 3 FIRST AT-SEA DIVISION OFFICER TOUR *PC CHENG (OPPORTUNITY TO THOSE WITH SUPPORTING EXPERIENCE)* CG/DDG MPA LC1/2/3/6/7/8; OOD - LB2, *CG/DDG MPA LHD BOILERS OFF LCS MPA CNSS-5 REPAIR OFF USCG LICENSE (3RD, 2ND, 1ST, CHIEF USCG LICENSE (3RD, 2ND, 2ND, 2ND, 2ND, 2ND, 2ND, 2ND, 2N	01100	_	DDG MPA	
AQD Shore: CB3/CB4; CD3/CD4 S FIRST AT-SEA DIVISION OFFICER TOUR *PC CHENG (OPPORTUNITY TO THOSE WITH SUPPORTING EXPERIENCE)* CG/DDG MPA LC1/2/3/6/7/8; OOD - LB2, LCS MPA USCG LICENSE (3RD, 2ND, 1ST, CHIEF USCH LCS MPA USCG LICENSE (3RD, 2ND, 1ST, CHIEF USCH LCS MPA	LC1/2/3/6/7/8, OOD - LB2,		LCS MPA	CNSS-5 REPAIR OFF
PC CHENG (OPPORTUNITY TO THOSE WITH SUPPORTING EXPERIENCE) *CG/DDG MPA LC1/2/3/6/7/8; OOD - LB2, LCS MPA *PC CHENG (OPPORTUNITY TO THOSE WITH SUPPORTING EXPERIENCE)*			EGB/EI B NON ELEGTRO/BON	USCG LICENSE (3RD, 2ND, 1ST, CHIEF)
PC CHENG (OPPORTUNITY TO THOSE WITH SUPPORTING EXPERIENCE) *CG/DDG MPA LC1/2/3/6/7/8; OOD - LB2, LCS MPA *PC CHENG (OPPORTUNITY TO THOSE WITH SUPPORTING EXPERIENCE)*		3 _		
AQD: EOOW - LC1/2/3/6/7/8; OOD - LB2, WITH SUPPORTING EXPERIENCE)* CG/DDG MPA LHD BOILERS OFF LCS MPA			FIRST AT-SEA DIVISION OFFICER TOUR	1 ST AND 2 ND TOURS ARE AT SEA
LC1/2/3/6/7/8; OOD - LB2, LHD BOILERS OFF LCS MPA	CWO2	_		
CVN FM/REP OFF		_	LHD BOILERS OFF LCS MPA LSD/LPD AUX/ELECTRO/DCA	

NOTES: THE BILLETS LISTED ARE NOT ALL INCLUSIVE. THE AQDS LISTED ARE THE BASELINE QUALIFICATIONS. THERE ARE OTHER AQDS THAT CAN BE EARNED DUE TO ADDITIONAL DUTIES AT A COMMAND.